



## Introduction, workshop objectives, approach and progress

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# Technology Needs Assessments

(A GEF funded project under Poznan Strategic Programme on  
Technology Transfer)

## Introduction, workshop objectives, approach and progress

First Regional Capacity Building Workshop

Follow-up to the First regional capacity building workshop  
(Second round countries)

**27-28 September 2011**

**Port Louis, Mauritius**

# Outline

- Introduction to UNEP Risø Centre
- Introduction to the TNA project
- Objectives of the workshop

# UNEP Risø Centre – Energy, Climate and Sustainable Development

- URC was established in 1990
- Based on an agreement between UNEP, Risø DTU and Danida
- URC Management and Policy Committee (MPC) is the board of the Centre
- Scientific Advisory Panel (SAP)
- General mandate is to support and promote UNEP activities in the areas of energy and climate change, with a special emphasis on developing countries.

- International research team of 35 - 40 economists and scientists from 15 different countries.
- Located at Risø National Laboratory for Sustainable Energy since 1990. Now an integral part of Technical University of Denmark – DTU.
- Mandate is to support and promote UNEP activities in the areas of energy and climate change, with a special emphasis on developing countries.



## The special setup of URC

- Integrated part of UNEP DTIE Paris
- Core research budget
- Access to a broad range of energy scientists and specialists at Risø DTU.
- A wide network of collaborating institutions, NGOs and partners in more than 40 developing countries.
- A non profit public institution with high demands to procedures, transparency and accounting.

# UNEP Risø Centre – Energy, Climate and Sustainable Development

## Cleaner Energy Development

- Facilitating cleaner energy technology transfer
- Improve access to cleaner and efficient energy technologies
- Analytical support for overcoming political and institutional barriers

## Energy and Carbon Finance

- Piloting new approaches within energy and carbon finance
- Enhancing a more equitable regional CDM project distribution
- Facilitating a more efficient carbon market

## Climate Strategies and Resilient Development

- New approaches for assessing cc vulnerability, adaptation and mitigation
- Capacity building for integrating adaptation in dc policies and planning.
- Furthering the understanding of cc impacts and response options

# The Technology Needs Assessment (TNA) Project - Project Objectives

- To identify and prioritize through country-driven participatory processes, technologies that can contribute to mitigation and adaptation goals of the participant countries, while meeting their national sustainable development goals and priorities (TNA).
- To identify the barriers that hinder the acquisition, deployment, and diffusion of the prioritized technologies for mitigation and adaptation.
- To develop Technology Action Plans (TAP) that specify activities and enabling frameworks to overcome the barriers and facilitate the transfer, adoption, and diffusion of selected technologies in the participant countries.

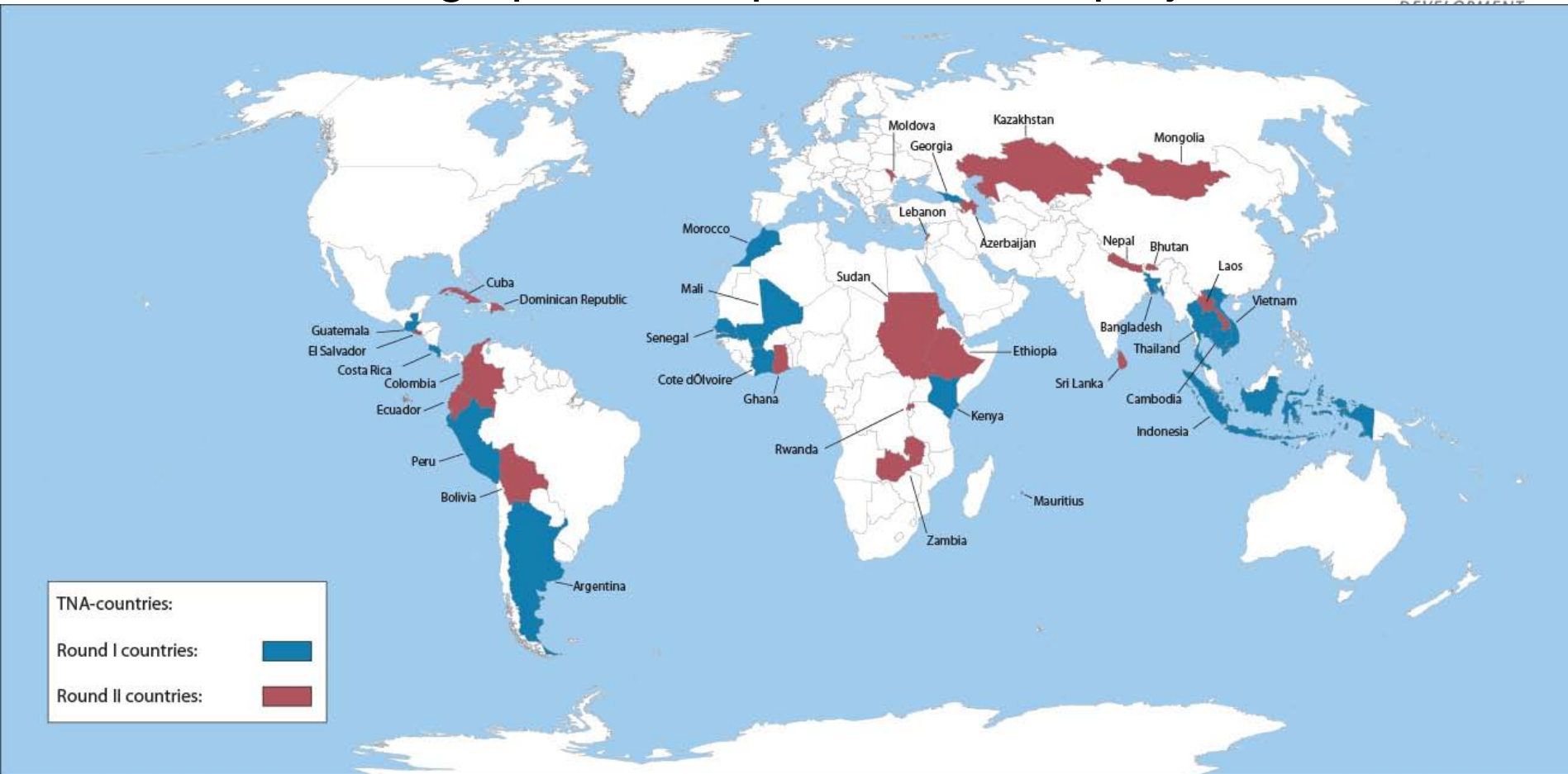


# The Technology Needs Assessment (TNA) Project - Overall project data

- Funding: GEF: 9 Million USD  
Co-financing: 2,85 Million USD
- Implementing agency: UNEP in cooperation with UNEP Risø Centre
- Scope: 35-45 countries
  - 15 in first round
  - 21 in second round
- Project start November 2009
- Project end September 2012

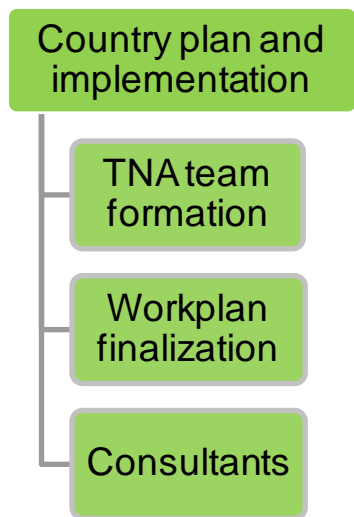
# The Technology Needs Assessment (TNA) Project

## - Geographical scope of the TNA project



# The Technology Needs Assessment (TNA) Project

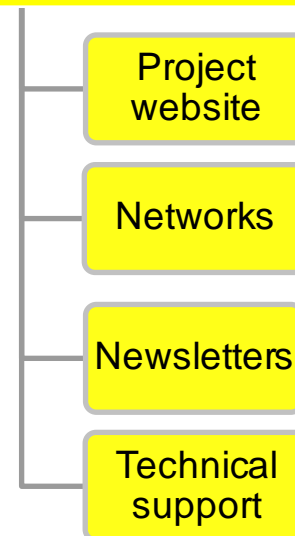
## Project Elements



### Technical support



### Communications and outreach/dissemination



## Why this approach ? First Round TNAs- Lessons Learnt

- First Round 1999- onwards
  - UNDP and UNEP Synthesis (2008)
    - Strengthening national capacity should be a key priority for future work on technology transfer activities.
    - Adaptation needs strengthening
    - Stakeholders' role needs to be well defined and involvement strengthened
    - Non-technological options need to be given better attention
    - Activities should be well defined and timely technical guidance should be available
    - Implementation of the findings needs to be supported
- ....

# The Technology Needs Assessment (TNA) Project - TNA Best Practices

- A good institutional set-up needed
  - Project coordinator and team (of experts) right candidates
  - Stakeholder group from key relevant institutions
- Detailed work plan with clear objectives and roles, in consultation with stakeholders
- Use right (most recent) methodology, adapt guidance to national circumstances
- Decide on the tool of prioritization in accordance to the national circumstances
- Use a wide range of criteria, identify a small number of key sectors
- Conduct a barrier analysis for the selected/prioritized technologies
- Draw implementation plans to address the barriers identified
- Develop project proposals

# The Technology Needs Assessment (TNA) Project - Country Missions

- **Objectives**

- to initiate and facilitate the programme formulation and contracting process at national level and;
- to establish and strengthen contacts between the UNEP Risø country coordinators and the national stakeholders

- **Main outputs**

- Discussions and finalisation of MoU
- Discussions and agreement on institutional structure
- Discussions and agreement on contracting modalities
- Consultations with TNA Team and stakeholders for common understanding of the project
- Draft work-plan for the TNA project at country level
- Draft contract and TOR for national consultants

- **Time period**

- January-March 2011

# The Technology Needs Assessment (TNA)

## Project

### - Country activities

- Contracts signed:
  - All eight countries: Ghana, Kenya, Lebanon, Mauritius, Zambia, Sudan, Rwanda, Ethiopia
- National Inception workshops held
  - Ghana, Kenya, Lebanon, Mauritius, Zambia, Sudan
- Consultants identified
  - Ethiopia (2), Ghana (3), Kenya (1), Lebanon (3), Mauritius (1), Rwanda (0), Sudan(2), Zambia (2),
- National Inception workshops scheduled:
  - Rwanda, Ethiopia,

# The Technology Needs Assessment (TNA)

## Project - Country activities

Country	Sectors for mitigation	Sectors for adaptation
Ghana	-	Agriculture, Water
Lebanon	Energy, Transport	Agriculture, Water
Mauritius	Energy Industries	Water, Agriculture & Fisheries, Coastal Zone and Tourism
Sudan	?	?
Zambia	Energy, Waste	Agriculture, Water

Kenya, Ethiopia and Rwanda have not yet prioritized sectors



# The Technology Needs Assessment (TNA) Project - Generic Country Work-plan Second round

SI No.	Activity	2011				2012			
		1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24
	Month								
1.	Establishing TNA Team, Project Coordinator, and carrying out preparatory work - Organising stakeholders - Finalising work-plan - National Inception Workshop								
2.	Prioritizing Sectors and Technologies								
3.	Market Analysis / Barriers Analysis of prioritized technologies and Developing Enabling Framework (Conducting techno-economic appraisal of prioritized technologies where applicable)								
4.	Preparing Technology Action Plan (TAP)								
5.	Preparing selected programme proposals								
6.	Preparing and submitting the Final Report								

## 1st Regional workshop objectives

- Selecting technologies / strategies for GHG mitigation and climate change adaptation
  - **tools and methodologies**
- Presenting the format of reporting the outcomes in the “Technology Needs Assessment” (TNA) and “Technology Action Plan” (TAP) Reports.
- Familiarizing the participants with the scope of technical assistance related to database - Climate Techwiki, Guidebooks and Helpdesk facility made available under the project

**Thanks for your attention !**